

ABSTRACT OF THE DISCLOSURE

There is provided a synchronous rectifier circuit that makes it possible to secure sufficient driving voltage for the rectifier switch regardless of the voltage of the secondary winding. In this synchronous rectifier circuit, the primary winding is insulated from the secondary winding and a rectifier switch is provided on the secondary side. An auxiliary switch, a diode, and an auxiliary winding are also provided on the secondary side. The emitter of the auxiliary switch and the cathode of the diode are connected to the gate of the rectifier switch. One end of the auxiliary winding is connected to the base of the auxiliary switch and the anode of the diode. An end of the secondary winding is connected to the collector of the auxiliary switch. The other end of the auxiliary winding is connected to this one end of the secondary winding.